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Applicant, Title of invention, Abstra	ct — e.g. computer semiconduct	or				
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acoustic		AND ₩				
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emission sensor		OR ▼				
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Search Results: 5 Index Indication Clear	
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acoustic emission sensor	AND ₩
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recording medium	AND ₩
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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1		(((acoustic adj emission) or (piezoelectric)) adj sensor) same (collision or crash or impact) same (defect or asperity or protusion) same (map\$4)	USPAT	OR	ON	2004/12/01 17:43
L2	1	(((acoustic adj emission) or (piezoelectric)) adj sensor) same (defect or asperity or protusion) same (map\$4)	USPAT	OR	ON	2004/12/01 17:42
L3	62	(((acoustic adj emission) or (piezoelectric)) adj sensor) same (defect or asperity or protusion)	USPAT	OR	ON	2004/12/01 17:42
L4	14	(((acoustic adj emission) or (piezoelectric)) adj sensor) same (collision or crash or impact) same (defect or asperity or protusion)	USPAT	OR	ON	2004/12/01 17:43

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	72	((radial or angular) adj3 position\$3) same ((detect\$3 or determin\$3 or evaluat\$3 or ascertain\$3 or establish\$3) near5 (collision or crash or impact or protusion or shock))	USPAT	OR	ON	2004/12/01 12:25
L2	4	("360"/\$.ccls.) and 1	USPAT	OR	ON	2004/12/01 12:29
L3	1	("369"/\$.ccls.) and 1	USPAT	OR	ON	2004/12/01 12:20
L4	12	((radial or angular) adj3 position\$3) same ((detect\$3 or determin\$3 or evaluat\$3 or ascertain\$3 or establish\$3) near5 (collision or crash or impact or protusion or shock))	US-PGPUB	OR	ON	2004/12/01 12:21
L5	7	((radial or angular) adj3 position\$3) same ((detect\$3 or determin\$3 or evaluat\$3 or ascertain\$3 or establish\$3) near5 (collision or crash or impact or protusion or shock))	EPO	OR .	ON	2004/12/01 12:27
L6	1	((radial or angular) adj3 position\$3) same ((detect\$3 or determin\$3 or evaluat\$3 or ascertain\$3 or establish\$3) near5 (collision or crash or impact or protusion or shock))	JPO	OR	ON	2004/12/01 12:27
L7	14	((radial or angular) adj3 position\$3) same ((detect\$3 or determin\$3 or evaluat\$3 or ascertain\$3 or establish\$3) near5 (collision or crash or impact or protusion or shock))	DERWENT	OR	ON	2004/12/01 12:21
L8	0	((radial or angular) adj3 position\$3) same ((detect\$3 or determin\$3 or evaluat\$3 or ascertain\$3 or establish\$3) near5 (collision or crash or impact or protusion or shock))	IBM_TDB	OR	ON	2004/12/01 12:21
L12	8	((radial or angular) adj3 position\$3) same ((detect\$3 or determin\$3 or evaluat\$3 or ascertain\$3 or establish\$3) same (collision or crash or impact or protusion or shock)) and ((head or slider or actuator) and (ptich yaw))	USPAT	OR	ON	2004/12/01 12:27

L13	624	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion)	USPAT	OR	ON	2004/12/01 12:32
L15	153	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion) and (spindle)	USPAT	OR	ON	2004/12/01 12:32
L16	97	("360"/\$.ccls.) and 15	USPAT	OR	ON	2004/12/01 12:33
L17	14	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion) and (spindle) and (pzt or (piezoelectric))	USPAT	OR.	ON	2004/12/01 12:35
L18	8	("360"/\$.ccls.) and 17	USPAT	OR	ON	2004/12/01 12:33
L19	10	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion) and (spindle) and (pzt or (piezoelectric))	US-PGPUB	OR	ON	2004/12/01 12:36
L20	0	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion) and (spindle) and (pzt or (piezoelectric))	EPO	OR	ON	2004/12/01 12:35
L21	0	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion) and (spindle) and (pzt or (piezoelectric))	JPO	OR	ON	2004/12/01 12:36
L22	0	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion) and (spindle) and (pzt or (piezoelectric))	DERWENT	OR ,	ON	2004/12/01 12:36
L23	0	((fly adj1 height) or (head adj1 height) or ((ang\$4 or radial) adj8 position)) same (collision or crash or protusion) and (spindle) and (pzt or (piezoelectric))	IBM_TDB	OR	ON	2004/12/01 12:36
L24	21	((fl\$5 adj height) or crash\$3 or protusion or collision or asperity or attitude) and ((angular or angle or radial) near10 postion\$3)	USPAT	OR	ON	2004/12/01 13:07
L25	6	((acoustic or sound or harmonic or (elastic adj5 wave) or (sound adj1 wave)) near5 sensor) same ((fl\$5 adj height) or crash\$3 or protusion or collision or asperity or attitude)	EPO	OR	ON	2004/12/01 12:36

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L26	42	((acoustic or sound or harmonic or (elastic adj5 wave) or (sound adj1 wave)) near5 sensor) same ((fl\$5 adj height) or crash\$3 or protusion or collision or asperity or attitude)	JPO	OR	ON	2004/12/01 12:37
L27	4	((acoustic or sound or harmonic or (elastic adj5 wave) or (sound adj1 wave)) near5 sensor) same ((fl\$5 adj height) or crash\$3 or protusion or collision or asperity or attitude)	IBM_TDB	OR	ON	2004/12/01 12:37
L28	34	((acoustic or sound or harmonic or (elastic adj5 wave) or (sound adj1 wave)) near5 sensor) same ((fl\$5 adj height) or crash\$3 or protusion or collision or asperity or attitude)	DERWENT	OR	ON	2004/12/01 12:37
L29	158	((acoustic or sound or harmonic or (elastic adj5 wave) or (sound adj1 wave)) near5 sensor) same ((fl\$5 adj height) or crash\$3 or protusion or collision or asperity or attitude)	USPAT	OR	ON	2004/12/01 12:37
L30	24	("360"/\$.ccls.) and L29	USPAT	OR	ON	2004/12/01 12:37
L31	83	((acoustic or sound or harmonic or (elastic adj5 wave) or (sound adj1 wave)) near5 sensor) same ((fl\$5 adj height) or crash\$3 or protusion or collision or asperity or attitude)	US-PGPUB	OR	ON	2004/12/01 12:37
L32	17	("360"/\$.ccls.) and L31	US-PGPUB	OR	ON	2004/12/01 12:58
L33	1	"6700724".pn.	USPAT	OR	ON	2004/12/01 13:01
L34	1	"6785081".pn.	USPAT	OR	ON	2004/12/01 13:02
L35	2	(HDI or (head adj1 dis\$2 adj1 interference)) same (acoustic adj3 emission adj3 sensor) same (medium or media or dis\$2)	USPAT	OR	ON	2004/12/01 13:24
L36	6	(detect\$3 or avoid\$3) near5 (protusion asperitiy)	USPAT	OR	ON	2004/12/01 13:26
L37	4646	(detect\$3 or avoid\$3) same (protusion asperity crash collision impact) same (head actuator transducer slider)	USPAT	OR	ON	2004/12/01 13:27
L41	161	(detect\$3 or avoid\$3) near10 (protusion asperity crash collision impact) near10 (head actuator transducer slider) near10 (magnetic)	USPAT	OR	ON	2004/12/01 13:28
L42	10	(detect\$3 or avoid\$3) near10 (protusion asperity crash collision impact) near10 (head actuator transducer slider) near10 (magnetic) same spindle	USPAT	OR	ON	2004/12/01 13:29

L43	6	(detect\$3 or avoid\$3) near10 (protusion asperity crash collision impact) near10 (head actuator transducer slider) near10 (magnetic) same (trigonometry or trigonometric or function)	USPAT	OR	ON	2004/12/01 13:29
L46	23	((function adj5 generat\$3) near10 (cosine and sine)) same (integrat\$3 and multipl\$4)	USPAT	OR	ON	2004/12/01 14:17
L47	2651	((map\$\$) same (defect or protusion or asperity))	USPAT	OR	ON .	2004/12/01 16:09
L48	5	((map\$\$) same (defect or protusion or asperity)) same (position\$3 same detect\$3) same (crash or collision or impact)	USPAT	OR	ON	2004/12/01 16:12
L51	53	((map\$\$) same (defect or protusion or asperity)) same (position\$3 same (angular or angle or radial))	USPAT	OR	ON	2004/12/01 16:18
L53	10	((map\$\$) same (defect or protusion or asperity)) same (position\$3 same (angular or angle or radial)) and (crash or impact or collision)	USPAT	OR	ON	2004/12/01 16:13
L54	0	((map\$\$) same (defect or protusion or asperity)) same ((sine and cosine) same (integrat\$3 and multipl\$4) same (add\$3))	USPAT	OR .	ON	2004/12/01 16:24
L55	4	((head adj1 dis\$2) adj3 interference) same (AE or (acoustic adj1 emission adj1 sensor))	USPAT	OR	ON	2004/12/01 16:30
L56	10	((head adj1 dis\$2) adj3 interference) same (AE or (acoustic adj1 emission) or vibration\$3 or sound)	USPAT	OR	ON	2004/12/01 16:31